

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Big River Mine Tailings Site, OU1 -- Area of Response - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VII

Subject: POLREP #6
Progress Report
Big River Mine Tailings Site, OU1 -- Area of Response
07CR
Park Hills, MO
Latitude: 37.8625800 Longitude: -90.5087260

To: Dave Williams, US EPA

From: Heath Smith, OSC

Date: 4/14/2014

Reporting Period: April 30, 2012 through April 14, 2014

1. Introduction

1.1 Background

Site Number:	07CR	Contract Number:	ERRS:EP-R7-07-12 / SS: EP-S7-11-07
D.O. Number:	ERRS:0092 / SS: N/A	Action Memo Date:	12/6/2010
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	NPL	Operable Unit:	01
Mobilization Date:	1/17/2011	Start Date:	1/17/2011
Demob Date:		Completion Date:	
CERCLIS ID:	MOD98112689	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) incident category: Inactive Production Facility (Mining-Metals [Pb]).

1.1.2 Site Description

1.1.2.1 Location

The Big River Mine Tailings Site, OU-1 (Site), consists of schools, child day care facilities and properties where children less than 84 months of age, or other sensitive populations exist which exceed screening levels of 400 milligrams/kilogram (mg/kg) of lead in soils. The Site is within the boundaries of St. Francois County, Missouri. This response action does not include ongoing actions at other sub-sites (e.g. Lake Timberline sub-site and Iron Mountain Lake sub-site). As of Action Memorandum Amendment #3, work

at the Central Middle School sub-site has been incorporated into this action. The primary focus of this action lies within the "Area of Contamination" established in the 2004 Administrative Order on Consent between the EPA and the Doe Run Company.

The Site exists within an area of approximately 436 square miles and includes all of St. Francois County with the exception of the former Mine La Motte tract that extends into St. Francois County's southern border just north of the community of Mine La Motte, Missouri. St. Francois County is the location of a former mining region known as the "Old Lead Belt." The area is still referred to as the "Mineral Area." The population center of the area is located approximately 70 miles south of St. Louis. Seven large areas of mine waste covering an area of approximately 110 square miles are present within the Site. The areas included are the Bonne Terre Mine Tailings Site, the Leadwood Mine Tailings Site, the Elvins Mine Tailings Site, the Federal Mine Tailings Site, the Desloge Mine Tailings Site, the National Mine Tailings Site and the Doe Run Mine Tailings Site. Migration of lead-contaminated mine waste from these large tailings piles through human and environmental mechanisms has occurred. This response is not limited to these mine waste areas.

1.1.2.2 Description of Threat

See POLREP #1 (Initial POLREP).

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP #1 (Initial POLREP).

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The Site consists of schools, child day care facilities and residential properties in St. Francois County and within the "Area of Contamination" established in the 2004 Administrative Order on Consent between the EPA and the Doe Run Company, Missouri. The EPA discovered surface soils at the Site to have elevated concentrations of lead.

2.1.2 Response Actions to Date

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The EPA is currently exploring enforcement alternatives and conducting PRP search work that includes all of St. Francois County. As part of this work, the EPA is researching whether there are any viable surviving companies or mining entities that operated in St. Francois County.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
Lead-Contaminated Soil (ERRS contract)	Solid	128,706yd³	N/A	N/A	Desloge Tailings Pile
Lead-Contaminated Soil (Site-specific ontract)	Solid	42,531 yd³	N/A	N/A	Bonne Terre East Tailings Pile
Total		128,706 yd³			

2.2 Planning Section

No information available at this time.

2.3 Logistics Section

All logistical issues are being addressed by the EPA contractors.

2.4 Finance Section

2.4.1 Narrative

The total EPA costs for this removal action are based on full cost accounting practices.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$4,585,890.00	\$4,560,041.00	\$25,849.00	0.56%
TAT/START	\$273,395.00	\$247,388.00	\$26,007.00	9.51%
Site Specific Cleanup Contract	\$4,161,209.00	\$1,032,814.00	\$3,128,395.00	75.18%
Intramural Costs				
USEPA - Direct	\$202,500.00	\$100,000.00	\$102,500.00	50.62%
USEPA - InDirect	\$3,302,045.00	\$0.00	\$3,302,045.00	100.00%
Total Site Costs	\$12,525,039.00	\$5,940,243.00	\$6,584,796.00	52.57%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

No significant safety issues reported during this operational period

2.6 Liaison Officer

2.7 Information Officer

2.7.1 Public Information Officer

The site does not require a PIO.

2.7.2 Community Involvement Coordinator

The site does not require a CIC to be present at the continuously. The EPA held a Public Availability Session at Mineral Area College in Park Hills, Missouri on February 28, 2011, to share information and

answer questions about its proposal to establish a supplemental soil repository in Leadwood, Missouri. This repository will be used to store contaminated soil from properties throughout St. Francois County, Missouri.

The EPA community involvement coordinator (CIC) for the Site has helped develop a Site Fact Sheet. The fact sheet is available in the documents section of <http://www.epaosc.org/BRAOR>. A public meeting was held at the Mineral Area College in Park Hills, Missouri, on Monday, November 29, 2010.

3. Participating Entities

3.1 Unified Command

The limited scope of the response does not warrant a full Incident Management Team (IMT) or Unified Command. Operations, safety, logistics, planning and finance functions are primarily being handled by contractor staff.

3.2 Cooperating Agencies

Cooperating and assisting agencies include:

St. Francois County Central RIII School District,
North St. Francois County School District,
Farmington RVII, School District
Bismarck RV School District
City of Farmington,
City of Bismarck,
City of Bonne Terre,
City of Park Hills,
City of Desloge,
Missouri Department of Natural Resources,
Missouri Department of Health and Senior Services

4. Personnel On Site

No information available at this time.

5. Definition of Terms

AOC	Area of Contamination / Administrative Order on Consent
AOR	Area of Response
ATSDR	Agency for Toxic Substances and Disease Registry
CAMU	Corrective Action Management Unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EPA	Environmental Protection Agency
ERRS	Emergency & Rapid Response Services Contract
MDHSS	Missouri Department of Health and Senior Services
MDNR	Missouri Department of Natural Resources
mg/L	milligrams per Liter
mg/kg	milligrams per kilogram
NCP	National Contingency Plan
ng/m3	nanograms per cubic meter
NPL	National Priorities List
OSC	On-Scene Coordinator
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
Polrep	Pollution Report
PPE	Personal Protective Equipment

PPM	Part Per Million
PRP	Potentially Responsible Party
RCRA	Resource Conservation and Recovery Act
RPM	Remedial Project Manager
Sitrep	Situation Report
START	Superfund Technical Assessment and Response Team
SS	Site Specific
SU	Sample Unit
TCLP	Toxicity Characteristic Leaching Procedure
XRF	X-Ray Fluorescent Spectrometer
yd3	Cubic Yard

6. Additional sources of information

6.1 Internet location of additional information/report

For additional information, please refer to <http://www.epaosc.org/BRAOR>

6.2 Reporting Schedule

The Pollution Report (PolRep) serves as the OSC's record of the response actions, notifications and decisions made to support the response action. PolReps will be completed and posted as conditions warrant and at the conclusion of site activities.

7. Situational Reference Materials

Please refer to the documents section of <http://www.epaosc.org/BRAOR> for maps, data, diagrams, etc.